

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P843156

Luminaire Tested: **24CZ2-60HE-SQR-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-60HE-SQR-UNV-B50  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

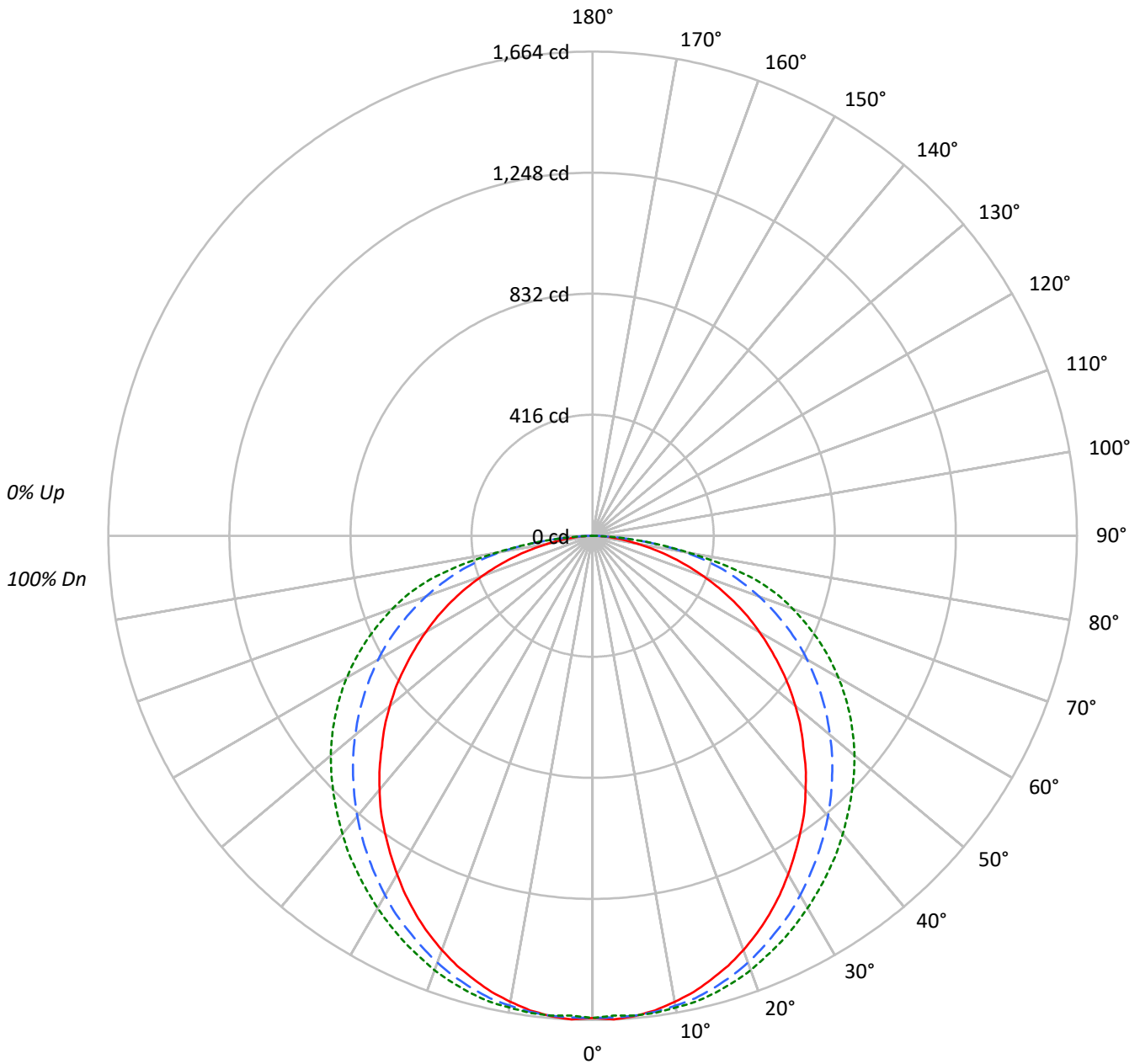
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5184.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2339	2339	2339
5°	2348	2345	2345
10°	2331	2350	2360
15°	2306	2351	2376
20°	2275	2345	2386
25°	2237	2333	2394
30°	2190	2324	2408
35°	2144	2318	2430
40°	2097	2318	2463
45°	2043	2323	2511
50°	1996	2338	2579
55°	1938	2363	2658
60°	1870	2401	2754
65°	1789	2447	2870
70°	1660	2508	3016
75°	1503	2595	3155
80°	1265	2602	2712
85°	968	1967	1967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	3.0
10°-20°	452.6	8.7
20°-30°	687.4	13.3
30°-40°	836.1	16.1
40°-50°	890.2	17.2
50°-60°	847.9	16.4
60°-70°	709.0	13.7
70°-80°	472.7	9.1
80°-90°	130.8	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1297.2	25.0
0°-40°	2133.4	41.2
0°-60°	3871.4	74.7
0°-90°	5184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1657	1647	1655	1655	1655	157
15°	1578	1582	1609	1621	1626	445
25°	1436	1455	1498	1524	1537	661
35°	1244	1280	1346	1390	1410	779
45°	1024	1078	1164	1229	1258	791
55°	788	856	960	1044	1080	704
65°	536	614	733	823	859	529
75°	276	363	476	556	579	292
85°	60	111	122	120	122	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1657.0	1657.0	1657.0	1657.0	1657.0
2.5°	1663.9	1651.9	1657.0	1657.0	1650.3
5°	1657.0	1646.7	1655.4	1655.4	1655.4
7.5°	1645.2	1636.5	1650.3	1653.6	1653.6
10°	1626.3	1622.9	1640.1	1645.2	1646.7
12.5°	1605.8	1604.0	1628.0	1634.7	1640.1
15°	1578.2	1581.8	1609.1	1621.1	1626.3
17.5°	1549.3	1556.0	1586.9	1604.0	1609.1
20°	1515.0	1525.3	1561.3	1578.2	1588.7
22.5°	1477.4	1492.8	1530.4	1550.8	1562.9
25°	1436.3	1455.0	1497.9	1523.5	1537.3
27.5°	1391.8	1415.8	1465.4	1494.3	1508.1
30°	1343.7	1371.1	1426.0	1460.3	1477.4
32.5°	1294.1	1326.6	1386.7	1424.3	1444.7
35°	1244.5	1280.5	1345.5	1390.0	1410.5
37.5°	1194.9	1230.7	1302.8	1350.6	1376.4
40°	1138.4	1181.1	1258.3	1311.2	1337.1
42.5°	1083.7	1129.7	1212.0	1270.1	1297.7
45°	1023.6	1078.5	1164.0	1229.2	1258.3
47.5°	968.9	1023.6	1116.1	1184.7	1217.1
50°	909.0	967.1	1064.7	1140.2	1174.4
52.5°	850.7	910.8	1013.4	1093.9	1128.2
55°	787.5	855.8	960.4	1044.3	1080.1
57.5°	724.1	797.8	905.5	992.9	1028.9
60°	662.5	737.7	850.7	938.2	975.8
62.5°	600.9	676.1	794.2	883.2	919.3
65°	535.7	614.5	732.6	823.4	859.4
67.5°	470.7	552.8	671.0	761.7	796.0
70°	402.2	489.7	607.8	696.8	731.0
72.5°	339.0	426.3	542.6	630.0	662.5
75°	275.6	362.9	475.9	556.4	578.6
77.5°	214.0	301.2	402.2	455.4	460.5
80°	155.7	238.0	320.1	335.5	333.7
82.5°	104.3	178.0	220.9	222.5	227.6
85°	59.8	111.2	121.5	119.9	121.5
87.5°	24.0	39.4	34.3	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)